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Silver Nanoparticles
SNP51

Description:

Colloidal silver nanoparticles have been produced with concentrations of 1000, 2000, and 4000 ppm and functionalized with PVP.

Characterization	
CAS	7440-22-4
Stock No.	SNP511 SNP512 SNP514
Molecular formula	Ag
Molecular weight (g/mol)	107.87
Form	Water base colloid
Color	Olive
Concentration (mg/mL)	1 2 4
Functional group	PVP
Morphology	Spherical
Crystal structure	FCC
Size range (nm)	20-60
Average size (nm)	35
Total impurity (%)	Residual chemical left from manufacture
Oxide density (g/cm3)	N/A

Image of silver nanocolloid (SNP51)

Note: product specifications are subject to amendment and may change over time.

Applications (but not limited to the following):

Biosensors, catalysts, chemical sensors, conductive coating, conductive inks, data storage, EMI/RFI shielding, high thermal conductivity materials, medical fields, sterilizer, antibacterial packaging.

Safety:

Always use protective gloves and safety glasses.
Wash with soap and water after exposure.
Refer to MSDS prior to handling this material.

www.armina-eng.com
Sales@armina-eng.com

حرکت بسوی آینده پایدار
A mission for sustainable future

Address: Tehran-Damavand road, Pardis technology park, commercialization and techmart building, No. 1304
Postals Code: 16541 20708
Telefax: +98 21 7625 1689

(+98) 933 759 6565

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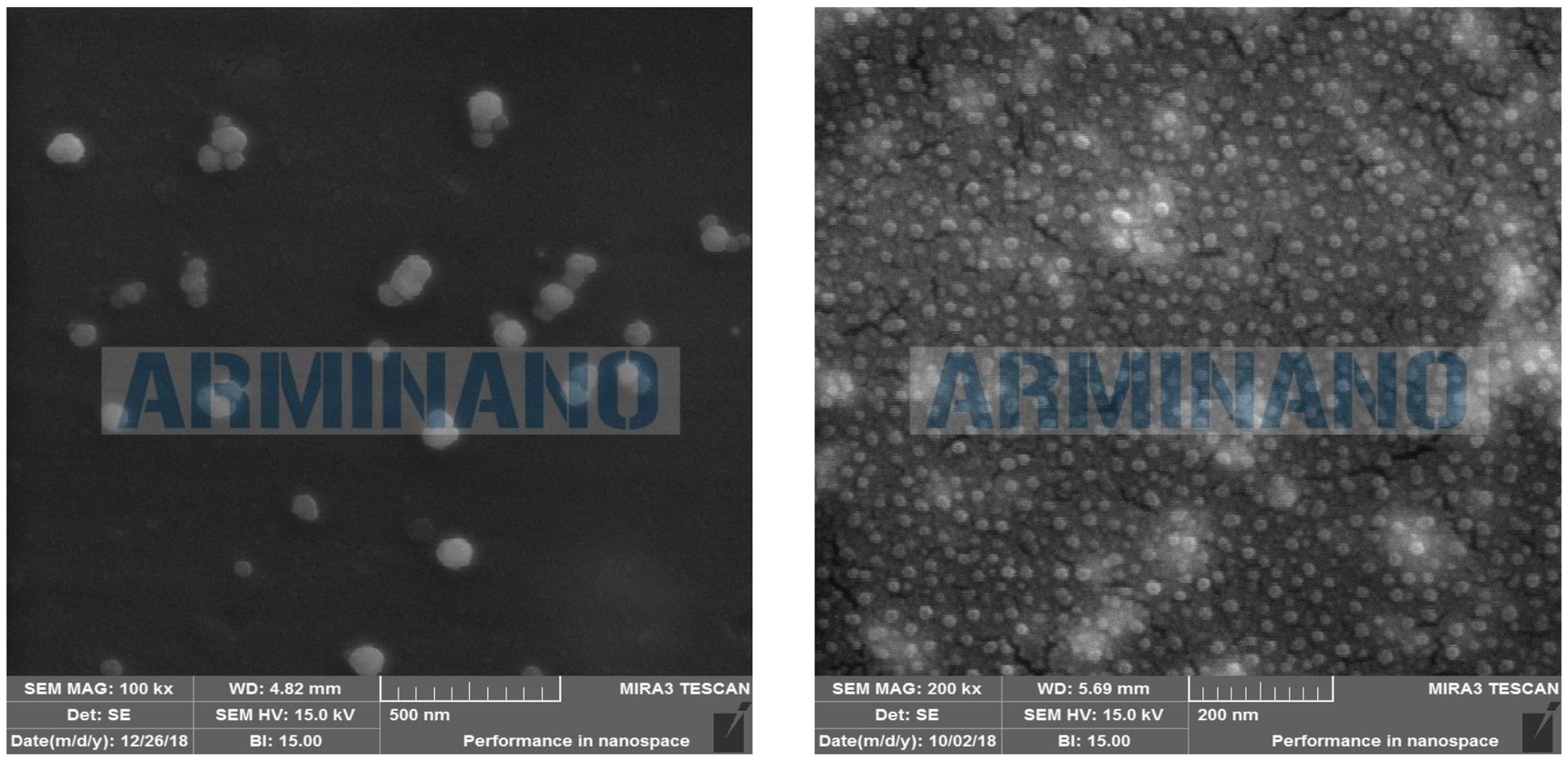
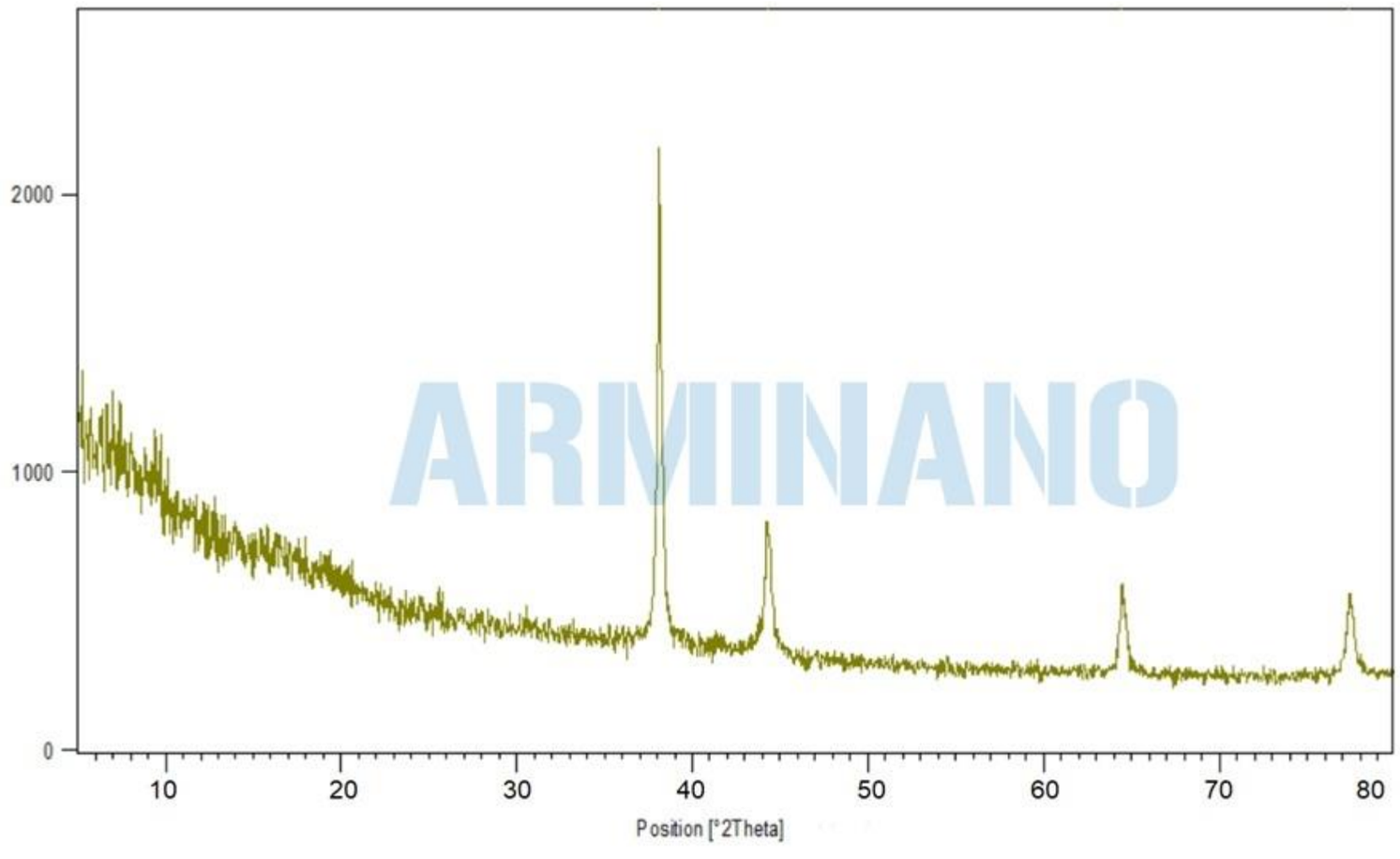


SEM images of SNP51



XRD pattern of SNP51

Storage:

Keep it in cool dry place.
Avoid direct sunlight.
Do not freeze.
To disperse sedimented nanoparticles sonication can be used.

Shelf life:

When stored as specified the product is stable for at least 6 months.

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